Amendments to the Specification:

Please amend the Specification as follows:

Please amend the paragraph beginning on page 14, line 20 as follows:

Finally, assuming $q = j - n$, we obtain the formula from which we derive the modulation algorithm:

$$s_{k+jM} = \underbrace{\sum_{q=0}^{2L-1} \underbrace{\sum_{m=0}^{2M-1} \underbrace{a_{m,(j-q)}\, i^{m+(j-q)}\, (-1)^{m(j-q+L)}}_{\text{Pre-modulation}}\, e^{2i\pi \frac{m(k+qM)}{2M}}}_{\text{Reverse FFT}} \cdot g_{k+qM}}_{\text{Weighting by the prototype function g(t)}} \qquad (7)$$

with $\begin{cases} 0 \le k \le M-1 \\ j \in Z \end{cases}$

Please amend the paragraph beginning on page 24, line 15 as follows:

Resuming the notations given by the formula (2) and taking account of the limited number of coefficients representing the prototype function ($2ML$), we obtain a demodulation formula as follows:

$$\hat{a}_{m,j} \approx \Re e\left[\underbrace{\frac{1}{\rho_{m,j}} \frac{e^{-i\theta_{m,j}} (-i)^{m+j} (-1)^{m(j+L)}}{W}}_{\text{Phase and amplitude correction}} \underbrace{\sum_{k=0}^{2M-1} \underbrace{\left[\sum_{q=0}^{L-1} r_{k+jM+2qM}\, g_{k+2qM} \right] e^{-2i\pi m \frac{k}{2M}}}_{\text{Weighting by the prototype function}}}_{\text{Complex FFT}} \right] \quad ($$

with $\begin{cases} p = jM + 2qM + k \\ 0 \le k \le 2M-1 \\ 0 \le q \le L-1 \end{cases}$